

Multi-Axis Transfer Board

Abstract

5 This invention relates to a transfer board for a wheelchair. The multi-axis board comprises a first part, a second part and a third part. The first part has a top plate, a bottom plate with an elongated guide rail, a first spacer and a second spacer. The second part has a sliding plate defining a first region having a first spindle and a second region having a second spindle. The first spindle is slidably and rotatably coupled to the elongated guide
10 rail of the bottom plate forming a first axis of motion where the first spindle is slidable between a first end and a second end of the elongated guide rail and a second axis of motion where the sliding plate is rotatable about the first spindle. The third part has a rotating plate. The second spindle is rotatably coupled to a through opening of the rotating plate forming a third axis of motion where the rotating plate is rotatable about the second
15 spindle. The first, second and third parts are coupled to the wheelchair such that the first, second and third parts are movable between a retracted position where the first, second and third parts are substantially parallel to a wheel of the wheelchair and the second region of the second part is supporting an arm rest of the wheelchair and an extended position where the first, second and third parts are substantially perpendicular to the wheel of the
20 wheelchair. A safety mechanism may be provided to secure the multi-axis transfer board to a safety buckle of a vehicle.

Figure 4 to be accompanied with the abstract